

Receiving Report

Date: 14/4/2

Batch No: M128703

Supplier: E.B. PERLERS

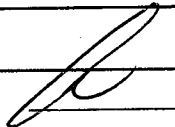
Dart P/O: 23575

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC18 Inspection ☐ N/A ☒
 Work Order ☐ N/A ☐

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver QC12 

Production/Admin:
 Date
 Received/Costing
 Initial

Location 1st An



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23579**

Purchase Order Date 4/1/2014

PO Print Date 4/1/2014

Page Number 1 of 1

Order From : VC-ROY001

RBC ROYAL BANK - VISA
PAYMENT CENTRE, PO BOX 4016, STAT. A
TORONTO, ON M5W 1X6
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKE
04/01/14

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

COD

CAD

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	71400-20	EA934NA-QT HYSOL	4/3/2014 Yes 4/3/2014		1.00 Each	\$144.68	\$144.68
	Procurement Quality Clauses A005 RIGHT OF ENTRY A012 CHEMICAL AND PHYSICAL TEST REPORTS A013 SHELF LIFE CONTROLLED MATERIAL; 80% SHELF LIFE REQUIRED AT RECEIPT A016 PERSONNEL QUALIFICATION A026 CERTIFICATION OF MATERIAL CONFORMANCE A040 NOTIFICATION OF QUALITY ESCAPE						

144/12/2

Line Total: \$144.68

PO Total: \$144.68

PO Instructions: E.B. PEERLESS
VISA: 4514 0310 0959 2060
EXP: 11/17 CID: 134

CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

1

Change Date: 4/1/2014



Certificate of Analysis

Attention of:
EB Peerless Ltd
(AG-Industrial-CAD)
6651 Elmbridge Way Unit 130
RICHMOND BC V7C 5C2
CANADA

DATE
PAGE

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Purchase Order: TP4569
Date of P.O.: 22 November 2013
Sales Order: 90197826
Delivery Note or Debit Memo: 86134439
Delivery Note position: 900001
Customer No.: 1563372

Material: LOCTITE EA 934NA QT AERO
(A)-1QT (B)-8OZ KIT
Known as: HYSOL EA 934NA QT SYSTEM
Material-No: 420504
Legacy Code: AS9174016
Bulk Material: 891959
Batch no: JH4AAG0251
Shipment Quantity: 48,000 EA
Manufacture date: 06 January 2014
Specification: HS-AS9174
Comments: NOTE: SPECIFICATION REQUIREMENT APPLIES TO AVERAGE RESULT ONLY

Revision: C

Batch Tested	Test Properties	Specification	Individuals	Avg	UOM
JH4A000251	Color , Pt A - Gray	—	OK	-	-
JH4A000251	Appearance , Pt A - Uniform paste; NFM	—	OK	-	-
JH4A000251	Weight per Epoxide , Pt A	174.00-190.00	185.05,188.85	186.95	g/eq
JH4A000251	Filler Content , Pt A	43.00-46.00	45.17,45.94	45.56	%(M)
JH4A000251	Viscosity , Pt A@77F (HBT#7, 20rpm)	3500-9000	3920,4080,4270	4090	poise
JH4A000251	Density , Pt A@77F	1.48-1.55	1.50	1.50	g per ml
JH4A000251	Color Value , Pt B (Gardner scale)	4-12	7	7	-
JH4A000251	Appearance , Pt B - Semi-transparent liquid; NFM	—	OK	-	-
JH4A000251	Amine Content , Pt B	11.80-14.00	13.58,13.65	13.62	%
JH4A000251	Viscosity , Pt B@77F (HBT#1, 20rpm)	10-30	23,23,23	23	poise
JH4A000251	Density , Pt B@77F	0.95-0.97	0.96	0.96	g per ml
JH4A000251	Barcol Hardness , Barcol@77F	> = 70	73	73	-
JH4A000251	Cured Density , Pt A&Pt B @77F Combined	1.28-1.38	1.29	1.29	g per ml
JH4A000251	Pot Life , 450gms@77F	40-60	59	59	minute(s)
JH4A000251	Tensile Shear , TS@77F i00 (Bare/PAA)	> = 3000	3460,3480,3510,3530	3573	lb/sq.inch
JH4A000251	Tensile Shear , TS@180F i00 (Bare/PAA)	> = 2000	3550,3910	2973	lb/sq.inch
JH4A000251	Tensile Shear , TS@300F i00 (Bare/PAA)	> = 1000	3070,3080	1400	lb/sq.inch
JH4A000251	Date Of Testing ,	January 29, 2014	1460	-	-

The above identified product conforms to all requirements listed above at the date and place of shipment from Henkel. If altered in any manner this test report is not valid. Test reports are available for inspection at Henkel Corporation, Bay Point, California. Henkel warrants this product for 12 months from the date of shipment from Henkel or an authorized distributor when stored at a temperature of <=40F / <= 4C. The warranty set forth is exclusively for the benefit of any recipient of the above identified product shipped directly from Henkel or a distributor that has been expressly authorized in writing by Henkel to provide such warranty on behalf of Henkel. Unless received directly from Henkel, please refer to the provider's certified letter from Henkel that establishes them as a Henkel authorized entity.

Signed Test Report on File

Henkel Quality Assurance

Date of Shipment: 31 January 2014

Henkel Corporation,
Aerospace Group
2850 Willow Pass Road
Bay Point, CA 94565-3237

Tel.: (925) 458-8000
Fax: (925) 458 8030
www.aerospace.henkel.com



Addendum

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Attention of:
EB Peerless Ltd
(AG-Industrial-CAD)
6651 Elmbridge Way Unit 130
RICHMOND BC V7C 5C2
CANADA

YOUR ORDER:
DATE OF ORDER:
DELIVERY NOTE:
DELIVERY POSITION:
CUSTOMER NO:

TP4569
22 November 2013
86134439
900001
1563372

Material: LOCTITE EA 934NA QT AERO
(A)-1QT (B)-8OZ KIT
Known as: HYSOL EA 934NA QT SYSTEM
420504
Material-No:
Batch
Batch no: JH4AAG0251
Film Batches
Quantity: 48.000 EA
Manufacture date: 06 January 2014

Specification: HS-AS9174 Revision: C
Comments: NOTE: SPECIFICATION REQUIREMENT APPLIES TO AVERAGE RESULT ONLY
Listed below are the specifications covered by the Henkel specification HS-AS9174.

Specification	Revision
000-804-741	
001-000300	0
00100201000	F
00200201000	H
00200261000	C
004-800-042	J
014125	
020129-0004	17
09-LC0072	01
1002265-001	F
11501610	D
130187	
13303691	C
171A4702-P5	R
22 00271 005	J
227A843	A
233353	
299-947-100 TYPE II CLASS 2	P
2992-158	C
3007-104	E
304169	
317750	B
38-18506-0011-1	NA
400-3612	H
400-3612-102	H
417441-2001 (PINT)	AY
417441-2002 (QUART)	AY
4613-0011	C
463949	D
46D147	A
5000-501-047	D
501C0120-04-020	AD
528-40896	J

Henkel Corporation, Aerospace Group
2850 Willow Pass Road
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AUGUST 2011

DATE
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Attention of:
EB Peerless Ltd
(AG-Industrial-CAD)
6651 Elmbridge Way Unit 130
RICHMOND BC V7C 5C2
CANADA

YOUR ORDER:
DATE OF ORDER:
DELIVERY NOTE:
DELIVERY POSITION:
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TP4569
22 November 2013
86134439
900001
1563372

Specification

Revision

593300683	6
6079109	E
612111-002	
6133156	D1
6275070	XC
701019	L
703337-001	A
7070930-01	K
717806031	A
73030SOCN-759625	D
740207P17	
75-T-2-1006-2-1 W/LTR EVC/216/97	1
7528039-17	AA
759625	E
80063-25	
866-530725-001 (PINT)	B
866-530725-002 (QT)	B
879451-00	D
9-3069 ECR 08494	B
900675-1 W/EXCEPT PER LT 3-13-95	A
9007053	A
917AS10195	
917AS1875	C
9602-0043	D
965385	C
99600-0013-702	B
A24262	B
ALMS 1210 SCN 1	
APD40683	A
APS1-154	E
ASN-A4041	A
ATC 44239	D
BACM 362	B
BMS 11030	T
BMS 200104	M
BMS 200201	A
BMS 360782	D
BMS 707470	F
BS 515055	A
C01-011	
C01-011	
C77712	
CDM200-01 (TYPE 4.8)	J
COMS-0004-3 TYPE 2	G
DAN 1196	01
DON394	
DPM 3485	
DPM 5535-2	
DPM 5535-2 (F-15 PROGRAM ONLY)	
DPS 1.07-39 TYPE 6	AA

Henkel Corporation, Aerospace Group
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Bay Point, CA 94565-3237
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Tel.: (925) 458-8000
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Attention of:
EB Peerless Ltd
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RICHMOND BC V7C 5C2
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**YOUR ORDER:
DATE OF ORDER:
DELIVERY NOTE:
DELIVERY POSITION:
CUSTOMER NO:**

TP4569
22 November 2013
86134439
900001
1563372

Specification

Revision

DPS 1.07-71 TYPE 2
EDS 1004-1
EMPS 100003.0-1
EPS 30-135
ES70089 W/ECO
FS01155-002
G277679-1
GEN-PS5402 CLASS 1 WITH EXCEPTION
HMS 20-1762 TY III CL 2 GR B AMD 1
HP 16-93 CLASS 6
HS 1265 CODE IVA1-2
LA0106-156 TYPE 2
M22GB15ZS-T001
M495 TYI CL3
MA-192
MDTI 1210
MIL-STD-186 CODE 517 (TYPE 1, CLASS 3)
MO855-001-01
MPS300031
MS34.40-29
MSRR 9328 ISSUE 3
MTL-P-0029
NSN 8040-00-016-8662 (QT)
NSN 8040-00-810-5414 (PT)
NSN 8040-01-137-4505 (QT)
NSN 8040-01-347-7599 (25 GRAM E-Z)
NSN 8040-01-347-7600 (50 GRAM E-Z)
NSN 8040-995-7017 (GAL)
P695653-84
PCR 07:03 TYPE 1 GRADE A
PDL 4972
PS 13508 TYPE VIII
SCD-10451
SCGMS-51034 TYPE III CLASS 2 GRADE B
ST32E3621
STBM0008-01
STD 179338 (9338-03)
SVHS9122

AB B 03 E C	H 6 G	B	C	F 1	A 2 5	D A B N D T A W	R N C B
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Revision Number: 002.3

Issue date: 03/20/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE EA 934NA AERO PART A QT known as EA 934NA PART A QUART	IDH number:	936944
Product use:	Adhesive for the Aerospace Industry	Item number:	AA9174016
		Region:	Canada
Company address:	Contact information:		
Henkel Canada Corporation	Telephone: 905.814.6511		
2515 Meadowpine Boulevard	MEDICAL EMERGENCY Phone: Poison Control Center		
Mississauga, Ontario L5N 6C3	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Solid	WHMIS hazard class:	D.2.B
Color:	Gray		
Odor:	Slight		

WARNING: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation:	May cause respiratory tract irritation.
Skin contact:	This product may cause irritation to the skin. This product may cause an allergic skin reaction.
Eye contact:	This product may cause irritation to the eyes.
Ingestion:	Not a relevant route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Triglycidyl-p-aminophenol	5026-74-4	30 - 60
Aluminum	7429-90-5	30 - 60
Phenol polymer with formaldehyde, glycidyl ether	28064-14-4	10 - 30
Glass, oxide, chemicals	65997-17-3	5 - 10
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Treated fumed silica	67762-90-7	1 - 5

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.

Skin contact:	Remove contaminated clothing and footwear. Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	Get immediate medical attention. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Notes to physician:	Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash point:	> 93 °C (> 199.4 °F)
Autoignition temperature:	Not determined
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
Hazardous combustion products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Sensitivity to Mechanical Impact:	Not available.
Sensitivity to static discharge:	Not available.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.
Clean-up methods:	Scrape up spilled material and place in a closed container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling:	For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Do not heat Part A at temperatures greater than 80 °C (176 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full.
Storage:	For safe storage, store between 0 °C (32°F) and 5 °C (41°F). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Refrigerated storage is recommended to maintain product quality.

For information on product shelf life contact Henkel Canada Customer Service at 800-263-5043.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Triglycidyl-p-aminophenol	None	None	None	None
Aluminum	1 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA (as Al) Respirable dust. 15 mg/m3 TWA (as Al) Total dust.	None	None
Phenol polymer with formaldehyde, glycidyl ether	None	None	None	None
Glass, oxide, chemicals	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None

Engineering controls:

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

Respiratory protection:

When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Color:	Gray
Odor:	Slight
Odor threshold:	Not available.
pH:	Neutral
Vapor pressure:	Not applicable
Boiling point/range:	Not determined
Melting point/ range:	Not determined
Specific gravity:	1.55
Vapor density:	> 1
Flash point:	> 93 °C (> 199.4 °F)
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not determined
Evaporation rate:	Not determined
Solubility in water:	Slight
Partition coefficient (n-octanol/water):	Not determined
VOC content:	< 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	May occur.
Hazardous decomposition products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.
Incompatible materials:	Keep away from strong oxidizing agents, strong Lewis or mineral acids.
Conditions to avoid:	Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Do not heat mixed adhesive unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

11. TOXICOLOGICAL INFORMATION

Product toxicity data:	Henkel is not aware of any toxicity data on the specific mixture of chemical components contained in this product.
Toxicologically synergistic products:	Not available.

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	ACGIH Carcinogen
Triglycidyl-p-aminophenol	No	No	No	No
Aluminum	No	No	No	No
Phenol polymer with formaldehyde, glycidyl ether	No	No	No	No
Glass, oxide, chemicals	No	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No	No
Treated fumed silica	No	No	No	No

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Triglycidyl-p-aminophenol	None	Allergen, Irritant, Mutagen
Aluminum	None	Central nervous system, Irritant, Lung
Phenol polymer with formaldehyde, glycidyl ether	None	Irritant, Allergen
Glass, oxide, chemicals	None	Allergen, Respiratory
Silica, amorphous, fumed, crystal-free	None	Nuisance dust
Treated fumed silica	None	Irritant

12. ECOLOGICAL INFORMATION

Ecological information:	Toxic to aquatic organisms
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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

14. TRANSPORT INFORMATION

Canada Transportation of Dangerous Goods - Ground

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA)

Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Triglycidyl-p-aminophenol, Bisphenol-F Epichlorhydrin resin)
Hazard class or division:	9
Identification number:	UN 3077
Packing group:	III

Water Transportation (IMO/IMDG)

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triglycidyl-p-aminophenol, Bisphenol-F Epichlorhydrin resin)
Hazard class or division:	9
Identification number:	UN 3077
Packing group:	III
Marine pollutant:	Triglycidyl-p-aminophenol, Bisphenol-F Epichlorhydrin resin
Exceptions:	Classified per IMDG Amendment 34; Effective Jan 1, 2010.

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
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United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
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16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

Prepared by: Mark Mau, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.



Revision Number: 002.2

Issue date: 03/04/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 934NA AERO PART B
8OZ known as EA 934NA PART B 8 OZ
Product use: Adhesive for the Aerospace Industry
Company address:
Henkel Canada Corporation
2515 Meadowpine Boulevard
Mississauga, Ontario L5N 6C3

IDH number: 936945
Item number: AB9174014
Region: Canada
Contact information:
Telephone: 905.814.6511
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Physical state: Liquid
Color: Amber
Odor: ammoniacal

WHMIS hazard class: D.2.A, D.2.B, E

DANGER-CORROSIVE!: CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.
MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Mists, vapors or liquid may cause severe irritation or burns.
Skin contact: This product is severely irritating to the skin and may cause burns. This product may cause an allergic skin reaction.
Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion: Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Amine adduct	Proprietary	60 - 100
Diethylenetriamine	111-40-0	10 - 30
Triethylenetetramine	112-24-3	1 - 5

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.

IDH number: 936945

Product name: LOCTITE EA 934NA AERO PART B 8OZ known as EA 934NA PART B 8 OZ

Eye contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion:

Get immediate medical attention. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Notes to physician:

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash point:

> 93 °C (> 199.4 °F)

Autoignition temperature:

Not determined

Flammable/Explosive limits - lower:

Not determined

Flammable/Explosive limits - upper:

Not determined

Extinguishing media:

Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures:

Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards:

May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.

Hazardous combustion products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Sensitivity to Mechanical Impact:

Not available.

Sensitivity to static discharge:

Not available.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.

Clean-up methods:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling:

For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Do not heat Part B at temperatures greater than 100 °C (212 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Do not cut, grind, weld, or drill on or near this container.

Storage:

For safe storage, store between 0 °C (32°F) and 25 °C (77°F). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

For information on product shelf life contact Henkel Canada Customer Service at 800-263-5043.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Amine adduct	None	None	None	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
Triethylenetetramine	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None

Engineering controls:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection:

Wear chemical goggles; face shield (if splashing is possible).

Skin protection:

Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Amber
Odor:	ammoniacal
Odor threshold:	Not available.
pH:	Not determined
Vapor pressure:	< 1.0 mm hg (20 °C (68°F))
Boiling point/range:	207 °C (404.6 °F)
Melting point/ range:	Not determined
Specific gravity:	0.96
Vapor density:	Not determined
Flash point:	> 93 °C (> 199.4 °F)
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not determined
Evaporation rate:	Not determined
Solubility in water:	Soluble
Partition coefficient (n-octanol/water):	Not determined
VOC content:	< 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	May occur.
Hazardous decomposition products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.
Incompatible materials:	Keep away from strong oxidizing agents, strong Lewis or mineral acids.
Conditions to avoid:	Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Do not heat mixed adhesive unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

11. TOXICOLOGICAL INFORMATION

Product toxicity data:

Henkel is not aware of any toxicity data on the specific mixture of chemical components contained in this product.

Toxicologically synergistic products:

Not available.

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Amine adduct	No	No	No
Diethylenetriamine	No	No	No
Triethylenetetramine	No	No	No

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Amine adduct	None	No Records
Diethylenetriamine	Oral LD50 (RAT) = 1,080 mg/kg Oral LD50 (RAT) = 2.33 g/kg	Allergen, Irritant, Eyes
Triethylenetetramine	None	Allergen, Corrosive, Developmental, Irritant, Mutagen

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State and local governmental regulations.

14. TRANSPORT INFORMATION

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine, Triethylenetetramine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Triethylenetetramine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine, Triethylenetetramine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

Prepared by: Mark Mau, Regulatory Affairs Specialist

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